

Mayfly Nymphs from Northwestern Florida

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SINCE publication of *The Mayflies of Florida* (Berner, 1950), 13 species of Ephemeroptera have been added to the fauna of the northwestern part of the state. This paper gives the occurrence of species now known from each of the nine major rivers, from the Perdido on the western border of the state, eastward to the Escambia, Blackwater, Yellow, Shoal, Choctawhatchee, Holmes, Chipola, and Apalachicola, respectively. The records of Berner (1950, 1955, 1958) are included, as well as new distributional data obtained by the writer during investigation of water pollution for the Florida State Board of Health from 1960-1965, and differentiated in the list by asterisks. The habitat in which the nymphs were collected is also given.

Family EPHEMERIDAE

Hexagenia bilineata (Say). Apalachicola River. Leaf detritus and silt bottom.

Hexagenia munda elegans Traver. Apalachicola River. Leaf detritus and silt bottom.

Hexagenia munda marilandica Traver. All nine rivers. Leaf detritus and silt bottom.

Pentagenia vittigera (Walsh). Apalachicola River. Silt bottom.

Family NEOEPHEMERIDAE

Neophemera compressa Berner. Apalachicola. Vegetation.

Neophemera youngi Berner. *Perdido, *Yellow, *Chipola, Apalachicola. Vegetation and silt bottom.

Family CAENIDAE

Brachycercus sp. A. Shoal, Choctawhatchee, Apalachicola. Leaf detritus, silt bottom, sand bottom. Recorded as *Brachycercus* sp. A by Berner (1950).

Brachycercus sp. *Escambia, *Yellow. Leaf detritus, silt, sand.

Caenis diminuta Walker. *Escambia, *Yellow, *Shoal, *Choctawhatchee, Holmes, Chipola, Apalachicola. Leaf detritus, silt bottom.

Caenis hilaris (Say). *Perdido, *Escambia, *Yellow, *Shoal, *Choctawhatchee, *Holmes, Chipola, Apalachicola. Leaf detritus, clay bottom, vegetation, log or board, sand bottom.

Family BAETISCIDAE

Baetisca escambiensis Berner. Escambia. Silt bottom, sand bottom.

Baetisca becki Schneider and Berner. *Perdido, *Blackwater, *Shoal. Gravel or rock, sand bottom.

Baetisca gibbera Berner. Escambia, *Shoal, *Choctawhatchee, Apalachicola. Log or board, sand bottom.

Baetisca obesa (Say). *Blackwater, *Yellow, *Choctawhatchee, *Chipola, Apalachicola. Leaf detritus, vegetation, log or board, silt bottom.

Baetisca rogersi Berner. Perdido, Escambia, Blackwater, Yellow, Shoal, Choctawhatchee, Apalachicola. Gravel or rock, log or board, silt bottom, sand bottom.

Family LEPTOPHLEBIIDAE

Choroaterpes hubbelli Berner. Choctawhatchee. Silt bottom, sand bottom.

Habrophlebiodes brunneipennis Berner. *Perdido, *Escambia, Apalachicola. Leaf detritus, silt bottom, sand bottom.

Habrophlebia vibrans Needham. *Perdido, *Escambia, *Blackwater, Apalachicola. Leaf detritus.

Leptophlebia intermedia (Traver). Perdido, Escambia, Shoal, Choctawhatchee, Chipola, Apalachicola. Leaf detritus.

Paraleptophlebia bradleyi (Needham). Perdido, *Escambia, *Yellow, *Shoal. Leaf detritus, vegetation, silt bottom.

Paraleptophlebia volitans McDunnough. Perdido, Escambia, Blackwater, Shoal, Choctawhatchee, Holmes, Apalachicola. Leaf detritus, gravel or rock, vegetation, log or board.

Family EPHEMERELLIDAE

Ephemerella choctawhatchee Berner. *Perdido, *Escambia, *Blackwater, Choctawhatchee, Chipola. Vegetation, sand bottom.

Ephemerella hirsuta Berner. Perdido, *Escambia, Apalachicola.

Leaf detritus, vegetation.

Ephemerella rotunda Morgan. Apalachicola. Vegetation.

Ephemerella deficiens Berner. Escambia, Blackwater, Yellow, Shoal, Chipola, Apalachicola. Leaf detritus, vegetation.

Ephemerella trilineata Berner. All nine rivers. Leaf detritus, vegetation, log or board.

Ephemerella dorothea Needham. *Choctawhatchee, *Holmes. Leaf detritus, vegetation.

Family TRICORYTHIDAE

Tricorythodes albilineatus Berner. Perdido, Escambia, Blackwater, Yellow, Choctawhatchee, Chipola, Apalachicola. Clay bottom, vegetation, log or board, silt bottom, sand bottom.

Family SIPHLONURIDAE

Isonychia fattigi Traver. Apalachicola. Leaf detritus.

Isonychia pictipes Traver. *Perdido, Holmes, Chipola, Apalachicola. Gravel or rock, log or board, sand bottom.

Isonychia sp. A. Perdido, Escambia, Blackwater, Shoal. Leaf detritus, log or board, sand bottom.

Isonychia sp. B. *Shoal, Holmes. Vegetation, log or board.

Isonychia sp. G. *Chipola, Apalachicola. Leaf detritus, log or board, sand bottom.

Family HEPTAGENIIDAE

Heptagenia flavescens (Walsh). *Perdido, *Shoal, Apalachicola. Leaf detritus, gravel or rock, vegetation.

Stenonema exiguum Traver. All nine rivers. Gravel or rock, vegetation, log or board.

Stenonema interpunctatum (Say). Apalachicola. Vegetation.

Stenonema proximum Traver. All nine rivers. Gravel or rock, vegetation, log or board.

Stenonema smithae Traver. All nine rivers. Leaf detritus, gravel or rock, vegetation, log or board.

Family AMETROPODIDAE

Siphloplecton speciosum Traver. Perdido, Blackwater, Shoal, Choctawhatchee, Chipola, Apalachicola. Vegetation.

Family BAETIDAE

Baetis australis Traver. Perdido, Chipola, Apalachicola. Leaf detritus, vegetation, log or board, silt bottom, sand bottom.

Baetis ephippiatus (Traver). Perdido, Escambia, Choctawhatchee, Holmes, Apalachicola. Vegetation.

Baetis intercalaris McDunnough. Holmes, Chipola, Apalachicola. Vegetation, sand bottom.

Baetis propinquus (Walsh). Apalachicola. Gravel or rock, vegetation.

Baetis spiethi Berner. Perdido, Choctawhatchee, Holmes, Chipola, Apalachicola. Vegetation, log or board.

Baetis spinosus McDunnough. All nine rivers. Leaf detritus, vegetation, log or board, silt bottom, sand bottom.

Callibaetis floridanus Banks. *Perdido, *Escambia, *Choctawhatchee, *Holmes, Chipola, Apalachicola. Leaf detritus, gravel or rock, vegetation.

Centroptilum hobbsi Berner. *Perdido, *Escambia, *Blackwater, *Yellow, *Shoal, *Choctawhatchee, Chipola, Apalachicola. Vegetation, log or board.

Centroptilum viridocularis Berner. *Escambia, *Blackwater, *Yellow, Choctawhatchee, Holmes, Chipola, Apalachicola. Vegetation, sand bottom.

Cloeon rubropictum McDunnough. Apalachicola. Vegetation, log or board.

Cloeon sp. A. Holmes, Apalachicola. Vegetation, log or board.

Pseudocloeon alachua Berner. *Escambia, *Holmes, *Chipola. Vegetation.

Pseudocloeon bimaculatum Berner. Perdido, Escambia, Blackwater, Yellow, Shoal, Choctawhatchee, Chipola. Leaf detritus, gravel or rock, vegetation, sand bottom.

Pseudocloeon parvulum McDunnough. *Holmes, Chipola, Apalachicola. Gravel or rock, vegetation.

Pseudocloeon punctiventris McDunnough. *Blackwater, *Choctawhatchee, Apalachicola. Gravel or rock, vegetation, sand bottom.

Family BEHNINGIIDAE

Dolania americana Edmunds and Traver. *Sweetwater Creek (a tributary of Blackwater River). Sand bottom. The only previous record of this family in the New World was the original

description of *D. americana*, based on five nymphs from the Savannah River system in South Carolina (Edmunds and Traver, 1959).

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LITERATURE CITED

- BERNER, LEWIS. 1950. The mayflies of Florida. Univ. Florida Press, Biol. Sci. ser., vol. 4, no. 4, pp. 1-267, 88 figs., 24 plates, 19 maps.
- . 1955. The southeastern species of *Baetisca* (Ephemeroptera: Baetiscidae). Quart. Jour. Florida Acad. Sci., vol. 18, no. 1, pp. 1-19, 23 figs.
- . 1958. Mayflies from the lower Apalachicola river drainage. Quart. Jour. Florida Acad. Sci., vol. 21, no. 1, pp. 25-31, 1 fig.
- EDMUNDS, GEORGE F., JR., AND JAY R. TRAVER. 1959. The classification of the Ephemeroptera, I. Ephemeroidea: Behningiidae. Ann. Ent. Soc. America, vol. 52, no. 1, pp. 43-51, 32 figs.

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